

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) An Occlusion ~~Occlusion~~ device consisting of a braiding (2) of thin wires or threads (4) given a suitable form by means of a molding and heat treatment procedure, having a proximal retention area (6) and a distal retention area (8), whereby the ends of the wires or threads (4) converge into a holder (5) in the distal retention area (8), and having a cylindrical crosspiece (10) interposed between said proximal and distal retention areas (6,8), whereby the two retention areas (6,8) are usually positioned on the two sides of a shunt to be occluded in a septum by means of an intravascular surgical procedure while a crosspiece (10) transverses the shunt,

~~characterized in that wherein~~ a proximal retention area (6) of the braiding (2) exhibits a flaring toward a proximal end (12).

2. (Currently amended) An occlusion ~~Occlusion~~ device in accordance with claim 1, ~~characterized in that wherein the~~ braiding (2) is composed of nitinol or of another shape-memory material ~~or material having memory effects~~.

3. (Currently amended) An occlusion ~~Occlusion~~ device in accordance with claim 2, ~~characterized in that wherein the~~ braiding (2) is formed from a shape-memory polymer, ~~in particular preferably~~ based on a polyanhydride matrix or on polyhydroxycarboxylic acids.

4. (Currently amended) An occlusion ~~Occlusion~~-device in accordance with claim 2, ~~characterized in that wherein the~~ braiding (2) is formed from a shape-memory polymer of ~~the a~~ block copolymer form.

5. (Currently amended) An occlusion ~~Occlusion~~-device in accordance with ~~one of the~~ preceding claims claim 1, ~~characterized in that wherein the~~ braiding (2) tapers to ~~the a~~ diameter of one of ~~the a plurality of~~ catheters used in the intravascular surgical procedure.

6. (Currently amended) An occlusion ~~Occlusion~~-device in accordance with ~~one of the~~ preceding claims claim 1, ~~characterized in that wherein a~~ proximal retention area (6) of braiding (2) exhibits a flattened tulip-shaped flared contouring to the proximal end ~~(12)~~.

7. (Currently amended) An occlusion ~~Occlusion~~-device in accordance with ~~one of~~ claims ~~1 to 5~~ claim 1, ~~characterized in that wherein the~~ proximal retention area (6) of the braiding (2) exhibits a bell-shaped flared contouring to the proximal end ~~(12)~~.

8. (Currently amended) An occlusion ~~Occlusion~~-device in accordance with ~~one of the~~ preceding claims claim 1, ~~characterized in that wherein the~~ wires or threads (4) of the braiding (2) at the open end (12) of the proximal retention area (6) are looped back to the closed end (3) of the distal retention area (8) and secured there in a holder ~~(5)~~.

9. (Currently amended) An occlusion ~~Occlusion~~ device in accordance with ~~one of the preceding claims claim 1, characterized in that wherein~~ at least one fabric insert is arranged in crosspiece (10) or in the proximal retention area (6) for ~~the complete~~ occluding of the shunt.

10. (Currently amended) A Method for method of manufacturing an occlusion device ~~in accordance with one of claims 1 to 9, characterized by the following process steps comprising:~~

a) configuring a funnel-shaped hollow braiding (2) ~~by means of a known braiding method~~, whereby said hollow braiding (2) is bundled at a first distal end (3) and remains open on an opposite second proximal end (12); and

b) forming a proximal retention area (6) at the open second end (12), a distal retention area (8) at the bundled first end (3), and interposing a cylindrical crosspiece (10) between said proximal and said distal retention areas (6, 8).

11. (Currently amended) The method Method in accordance with claim 10, ~~characterized by process step of further comprising configuring a holder (16) at the bundled distal end (3) of said funnel-shaped hollow braiding (2).~~

12. (Currently amended) The method Method in accordance with claim 10 ~~or 11, characterized in wherein that~~ the wires and threads (4) of the braiding (2) at the outer edge (19) of the flattened tulip shape of the open end (12) of the proximal retention area (6) are looped back to the closed end (3) of the distal retention area (18) and are bundled and secured there in the holder (5).

13. (Currently amended) The method ~~Method~~ in accordance with claim 10 ~~or 11~~, characterized in that wherein the ~~process~~ step of forming retention areas (6, 8) and crosspiece (10) includes a molding and/or heat treatment.

14. (Currently amended) The method ~~Method~~ in accordance with claim 10 ~~or 11~~, characterized in that wherein a funnel-shaped hollow braiding structure (2) is produced such that the thin wires or threads (4) ~~which that~~ constitute ~~the~~ finished braiding (2) are intertwined at the proximal open end (12) of the braiding (2) when the forming the funnel-shaped hollow braiding is formed (2).